

10/760,493

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NEWS 25 APR 30 CHEMCATS enhanced with 1.2 million new records
NEWS 26 APR 30 CA/CAPLUS enhanced with 1870-1889 U.S. patent records
NEWS 27 APR 30 INPADOC replaced by INPADOCDB on STN
NEWS 28 MAY 01 New CAS web site launched
NEWS 29 MAY 08 CA/CAPLUS Indian patent publication number format defined
NEWS 30 MAY 11 RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
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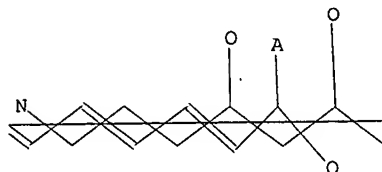
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L1 STRUCTURE UPLOADED

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L1 STR



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100.0% PROCESSED 11 ITERATIONS 0 ANSWERS
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FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 22 TO 418
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

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SEARCH TIME: 00.00.01

L3 23 SEA SSS FUL L1

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L4 3 L3

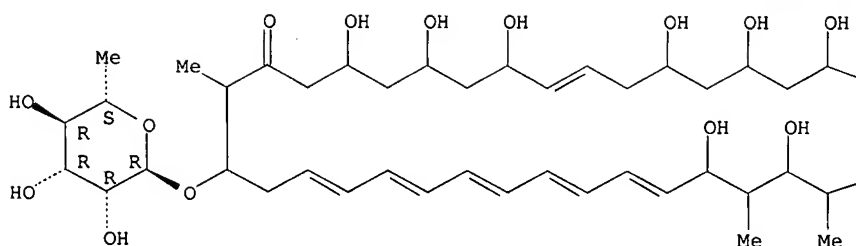
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L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:366398 CAPLUS
DN 145:283680
TI Improving drug discovery from microorganisms
AU Farnet, Chris M.; ~~Zazopoulos, Emmanuel~~ *My invention*
CS Ecopia BioSciences Inc., Montreal, QC, Can.
SO Natural Products (2006), 95-106. Editor(s): Zhang, Lixin; Demain, Arnold
L. Publisher: Humana Press Inc., Totowa, N. J.
CODEN: 69HZZ2; ISBN: 1-58829-383-1
DT Conference; General Review
LA English
AB A review. Microorganisms remain unrivalled in their ability to produce bioactive small mols. for drug development. However, the core technologies used to discover microbial natural products have not evolved significantly over the past several decades, resulting in a shortage of new drug leads. Advances in DNA-sequencing and bioinformatics technologies now make it possible to rapidly identify the clusters of genes that encode bioactive compds. and to make computer predictions of chemical structure based on gene sequence information. These structure predictions can be used to identify new chemical entities and provide important physicochem. "handles" that guide compound purification and structure confirmation. Industrialization of this process provides a model for improving the efficiency of natural-product discovery. The application of advanced genomics and bioinformatics technologies is now poised to revolutionize natural-product discovery and lead a renaissance of interest in microorganisms as a source of bioactive compds. for drug development.
IT 735316-93-5, ECO 02301
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(ECO 02301; application of advanced genomics and bioinformatics technol. lead to development of antifungal ECO-02301 from *S. aizunensis* at Ecopia and evidenced microorganism as source for natural bioactive compound for drug development)
RN 735316-93-5 CAPLUS
CN 2,4,6,8,12,18,20,22,24,26,38,48-Hexapentacontadodecaenamide, 56-amino-29-[(6-deoxy- α -L-mannopyranosyl)oxy]-15,17,33,35,37,41,43,45,47,51,53-undecahydroxy-N-(2-hydroxy-5-oxo-1-cyclopenten-1-yl)-14,16,30-trimethyl-31-oxo- (9CI) (CA INDEX NAME)

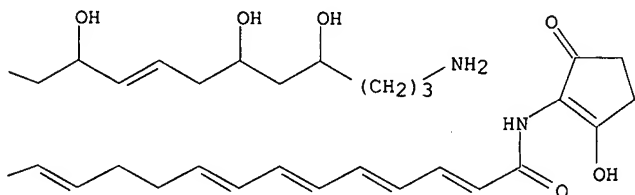
Absolute stereochemistry.
Double bond geometry unknown.
Currently available stereo shown.

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PAGE 1-A



PAGE 1-B



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:226855 CAPLUS

DN 142:403524

TI Microbial Genomics as a Guide to Drug Discovery and Structural Elucidation: ECO-02301, a Novel Antifungal Agent, as an Example

AU ~~McAlpine, James B.; Bachmann, Brian O.; Pirae, Mahmood; Tremblay, Steve;~~ *my mentors*
~~Alarco, Anne-Marie; Zazopoulos, Emmanuel; Farnet, Chris M.~~

CS Ecopia BioSciences, Inc., Montreal, QC, H4S 2A1, Can.

SO Journal of Natural Products (2005), 68(4), 493-496

CODEN: JNPRDF; ISSN: 0163-3864

PB American Chemical Society

DT Journal

LA English

AB Anal. of the genome of *Streptomyces aizunensis* NRRL B-11277 indicated its potential to produce a compound of novel and highly predictable structure. The structure was predicted with sufficient accuracy to allow straightforward detection of the specific metabolite in HPLC profiles of fermentation exts. and hence to guide the isolation. The spectroscopic work was reduced to a confirmation of structure rather than a first principle determination. The compound, ECO-02301, demonstrated potent antifungal activity. This work exemplifies not only the discovery of novel antibiotics from well-characterized organisms but also the utility of genomics as a further tool, complementary to spectroscopy, to enable rapid determination of complex structures.

IT 735316-93-5P, ECO 02301

RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PAC (Pharmacological activity); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation) (microbial genomics as a guide to drug discovery and structural elucidation of novel antifungal ECO-02301)

RN 735316-93-5 CAPLUS

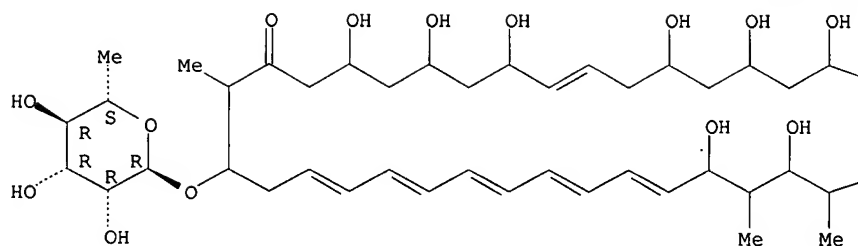
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Absolute stereochemistry.

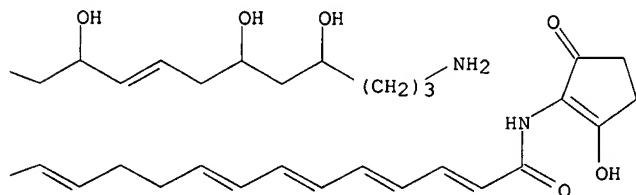
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Currently available stereo shown.

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PAGE 1-B

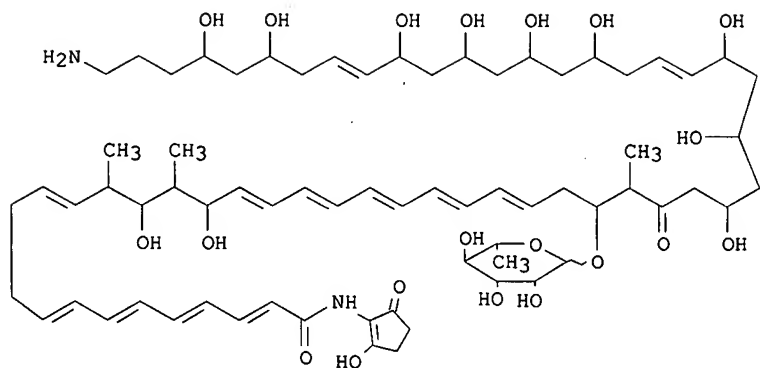


RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2004:633940 CAPLUS
DN 141:167732
TI Polyene polyketides, processes for their production using polyketide
synthetase genes and enzymes from Streptomyces aizunensis, and their use
as fungicidal and antitumor pharmaceutical
IN Bachmann, Brian O.; Mcalpine, James B.; Zazopoulos, Emmanuel; Farnet,
Chris M.
PA Ecopia Biosciences Inc., Can.
SO PCT Int. Appl., 554 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

my ara

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004065401	A1	20040805	WO 2004-CA68	20040121
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CA 2453071	A1	20040403	CA 2004-2453071	20040121
CA 2453080	A1	20040403	CA 2004-2453080	20040121
CA 2453080	C	20060221		
US 2005187167	A1	20050825	US 2004-760493	20040121
EP 1585752	A1	20051019	EP 2004-703730	20040121
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRAI US 2003-441123P	P	20030121		
US 2003-469810P	P	20030513		
US 2003-491516P	P	20030801		
US 2003-494568P	P	20030813		
WO 2004-CA68	W	20040121		
OS MARPAT 141:167732				
GI				



I

AB This invention relates to a new class of polyene polyketides, their pharmaceutically acceptable salts and derivs., and to methods for obtaining the compds. One method of obtaining these compds. is by cultivation of novel strains of *Streptomyces aizunensis* shown to produce polyketide I; another method involves expression of biosynthetic pathway genes in transformed host cells. The present invention further relates to the novel strains of *Streptomyces aizunensis* used to produce these compds., to the use of these compds. and their pharmaceutically acceptable salts and derivs. as pharmaceuticals, in particular to their use as inhibitors of fungal cell growth and cancer cell growth. I has in vivo *Candida albicans* antifungal activity similar to a dose of 0.25 mg/kg of fungizone and increases 4-fold the median survival time of infected mice. I is also effective against all the human tumor cell lines that have been assayed in the NCI screening panel, suggesting a broad anticancer activity against several types of human cancer; the GI50 calculated for all cell lines was lower than $10 + 10^{-6}$ M, and in some cases reached the nanomolar or picomolar level. The invention also relates to pharmaceutical compns. comprising these novel polyketides or a pharmaceutically acceptable salts or derivs. thereof. Finally, the invention relates to novel polynucleotide sequences and their encoded proteins, which are involved in the biosynthesis of these novel polyketides. The biosynthetic locus for production of I in *S. aizunensis* strain NRRL B-11277 spans .apprx.176,000 bp of DNA and encodes 38 proteins.

IT 735316-93-5P

RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(polyene polyketides, processes for their production using polyketide synthetase genes and enzymes from *Streptomyces aizunensis*, and their use as fungicidal and antitumor pharmaceutical)

RN 735316-93-5 CAPLUS

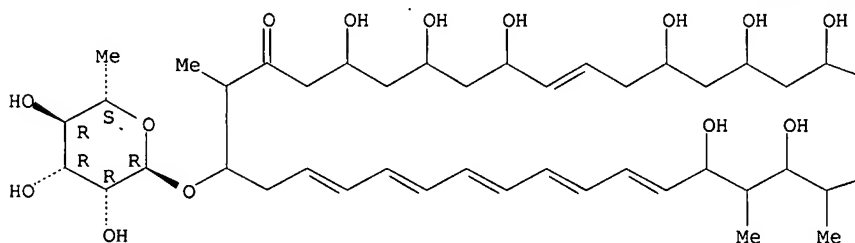
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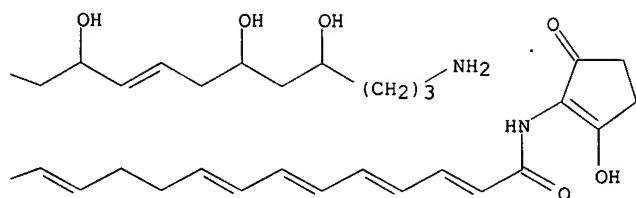
Absolute stereochemistry.

Double bond geometry unknown.

Currently available stereo shown.

PAGE 1-A





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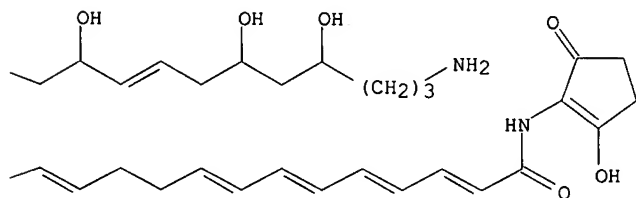
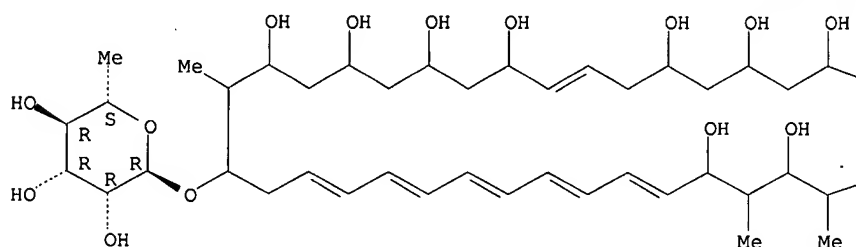
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(polyene polyketides, processes for their production using polyketide synthetase genes and enzymes from *Streptomyces aizunensis*, and their use as fungicidal and antitumor pharmaceutical)

RN 735316-95-7 CAPLUS

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Absolute stereochemistry.
 Double bond geometry unknown.
 Currently available stereo shown.

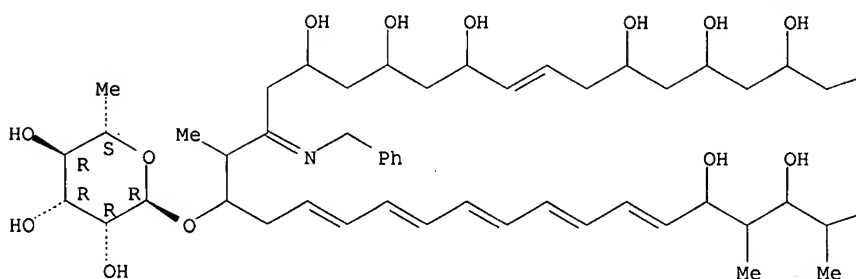


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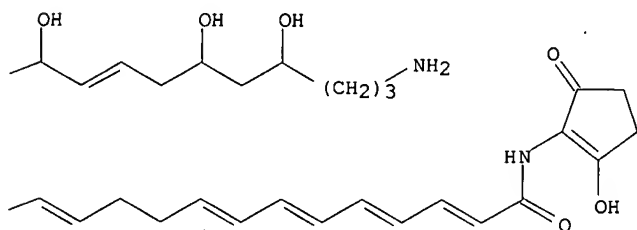
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Absolute stereochemistry.
 Double bond geometry unknown.
 Currently available stereo shown.

PAGE 1-A



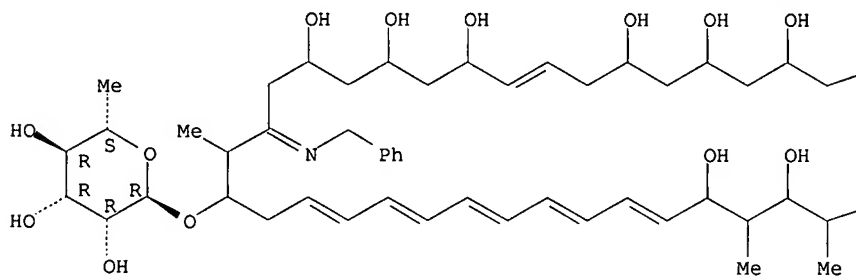
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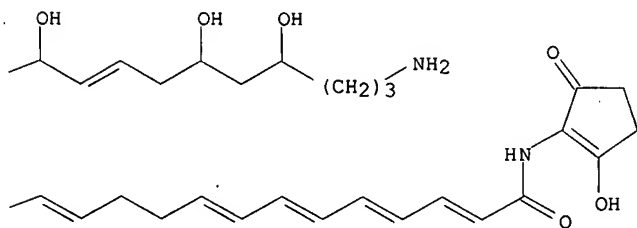
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 INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

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PAGE 1-B



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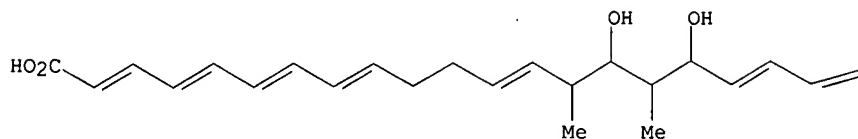
McIntosh

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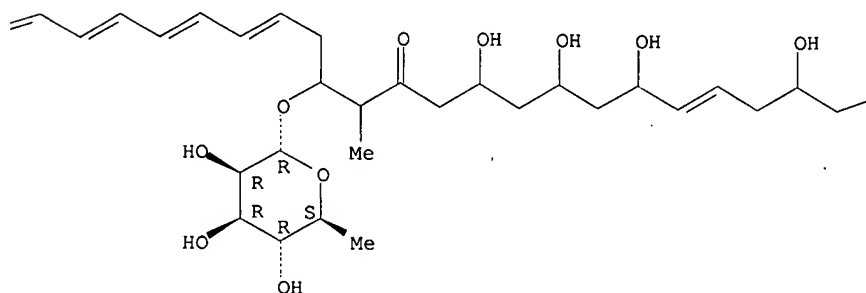
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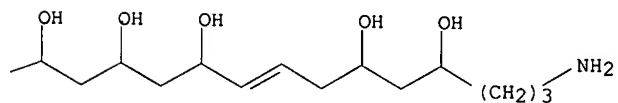
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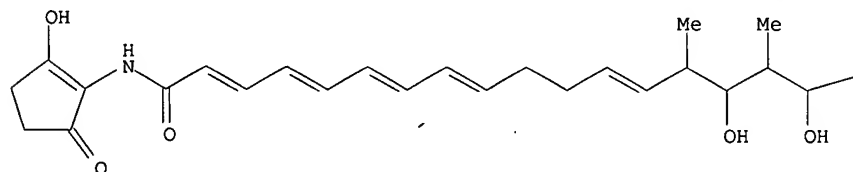
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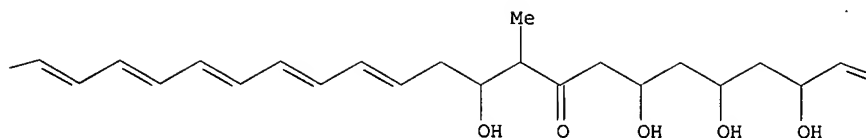
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Double bond geometry unknown.
Currently available stereo shown.

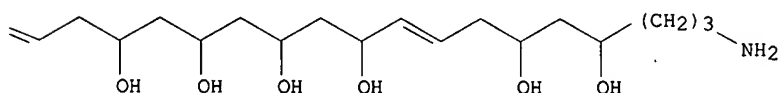
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PAGE 1-B



PAGE 1-C

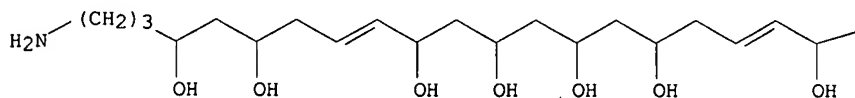


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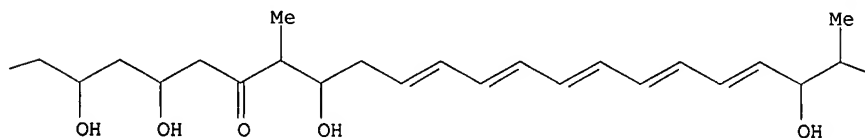
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Double bond geometry unknown.
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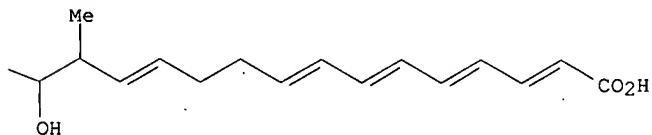
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PAGE 1-B



PAGE 1-C

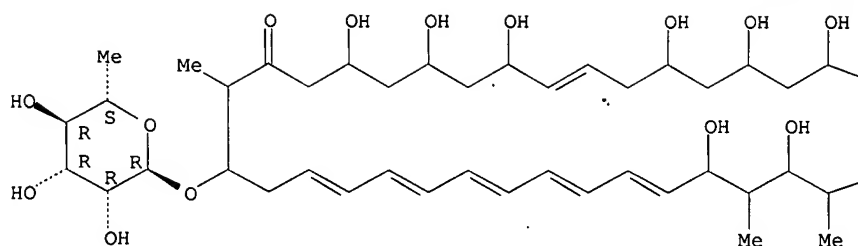


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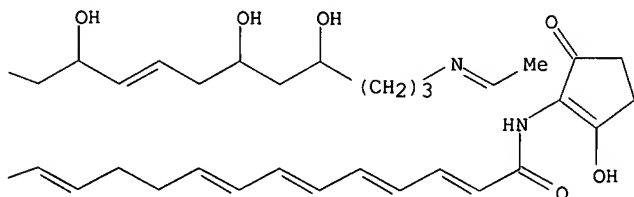
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15,17,33,35,37,41,43,45,47,51,53-undecahydroxy-N-(2-hydroxy-5-oxo-1-
cyclopenten-1-yl)-14,16,30-trimethyl-31-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.
Currently available stereo shown.

PAGE 1-A



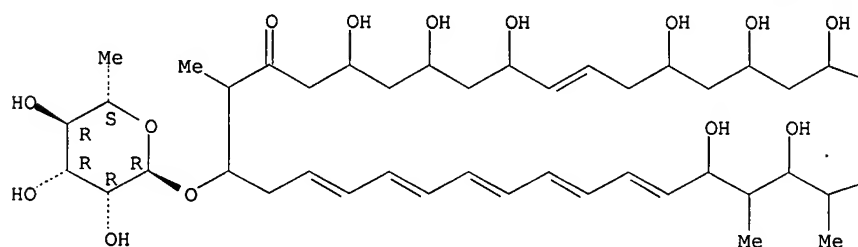
PAGE 1-B



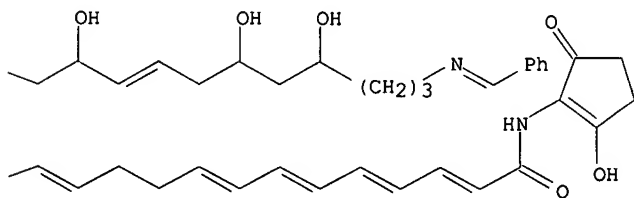
RN 735317-06-3 CAPLUS
 CN 2,4,6,8,12,18,20,22,24,26,38,48-Hexapentacontadodecaenamide,
 29-[(6-deoxy- α -L-mannopyranosyl)oxy]-15,17,33,35,37,41,43,45,47,51,53-
 undecahydroxy-N-(2-hydroxy-5-oxo-1-cyclopenten-1-yl)-14,16,30-trimethyl-
 31-oxo-56-[(phenylmethylene)amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

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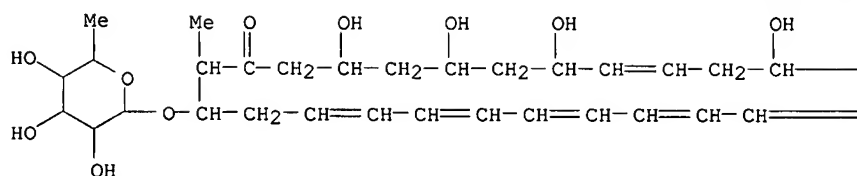


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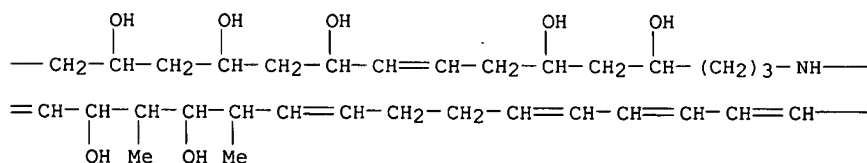


RN 735317-07-4 CAPLUS
 CN 2,4,6,8,12,18,20,22,24,26,38,48-Hexapentacontadodecaenamide,
 56-[(aminoiminomethyl)amino]-29-[(6-deoxy- α -L-mannopyranosyl)oxy]-
 15,17,33,35,37,41,43,45,47,51,53-undecahydroxy-N-(2-hydroxy-5-oxo-1-
 cyclopenten-1-yl)-14,16,30-trimethyl-31-oxo- (9CI) (CA INDEX NAME)

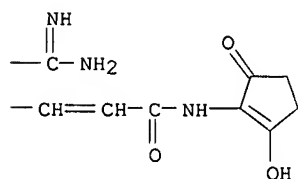
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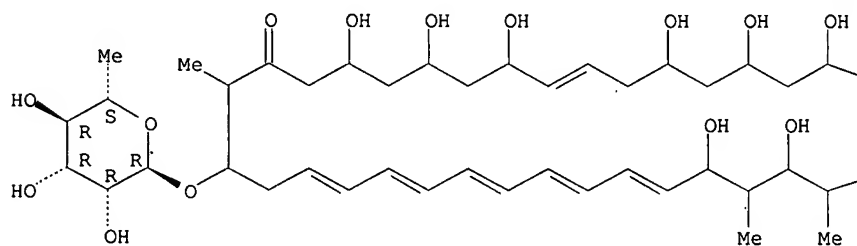
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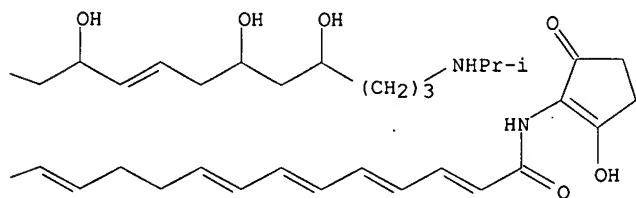
RN 735317-08-5 CAPLUS
 CN 2,4,6,8,12,18,20,22,24,26,38,48-Hexapentacontadodecaenamide,
 29-[(6-deoxy-α-L-mannopyranosyl)oxy]-15,17,33,35,37,41,43,45,47,51,5
 3-undecahydroxy-N-(2-hydroxy-5-oxo-1-cyclopenten-1-yl)-14,16,30-trimethyl-
 56-[(1-methylethyl)amino]-31-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

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RN 735317-09-6 CAPLUS
 CN 2,4,6,8,12,18,20,22,24,26,38,48-Hexapentacontadodecaenamide,

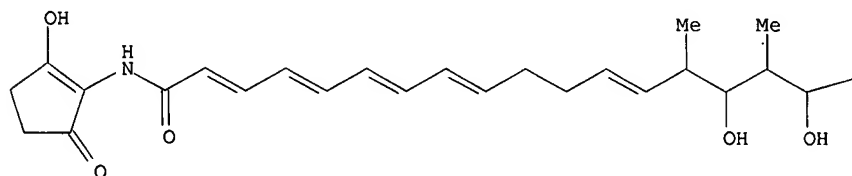
McIntosh

10/760,493

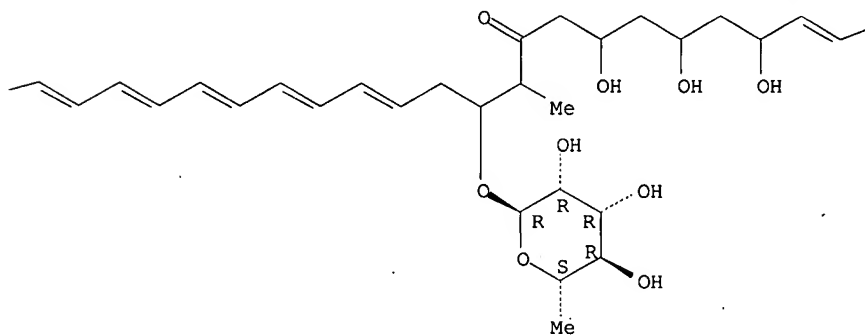
29-[(6-deoxy- α -L-mannopyranosyl)oxy]-15,17,33,35,37,41,43,45,47,51,53-undecahydroxy-N-(2-hydroxy-5-oxo-1-cyclopenten-1-yl)-14,16,30-trimethyl-56-[[[4-nitrophenyl)methyl]amino]-31-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

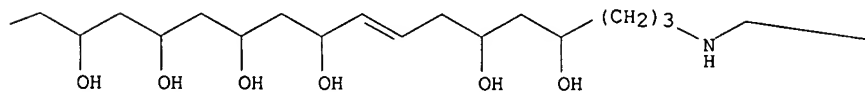
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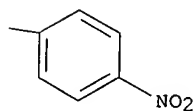
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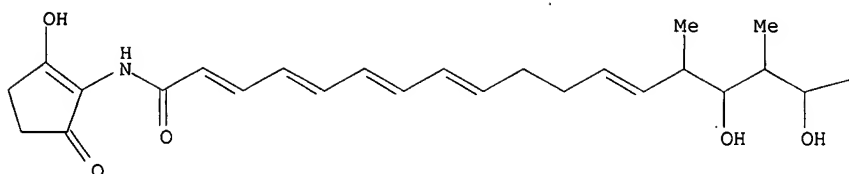
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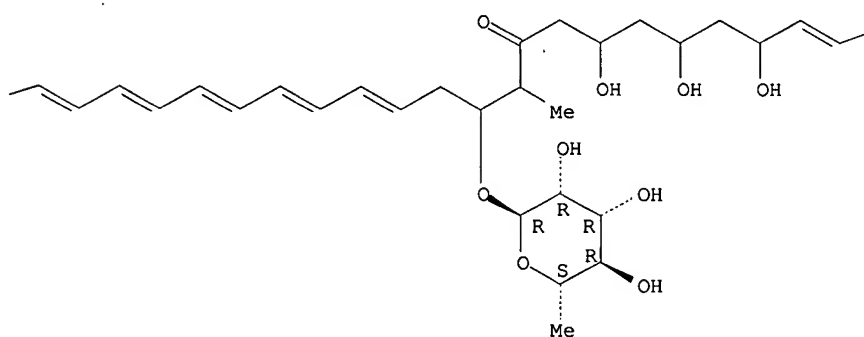
RN 735317-10-9 CAPLUS
CN 2,4,6,8,12,18,20,22,24,26,38,48-Hexapentacontadodecaenamide,
56-(cyclohexylamino)-29-[(6-deoxy- α -L-mannopyranosyl)oxy]-
15,17,33,35,37,41,43,45,47,51,53-undecahydroxy-N-(2-hydroxy-5-oxo-1-
cyclopenten-1-yl)-14,16,30-trimethyl-31-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.
Currently available stereo shown.

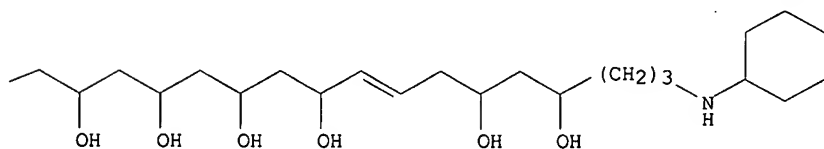
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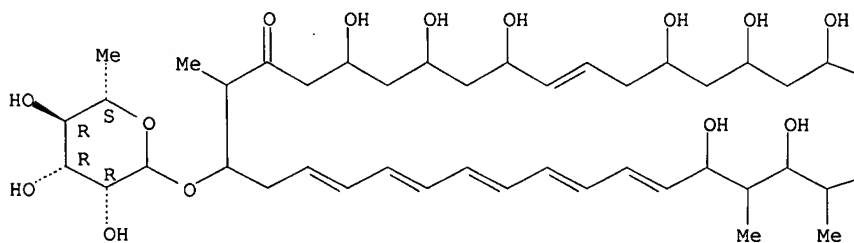
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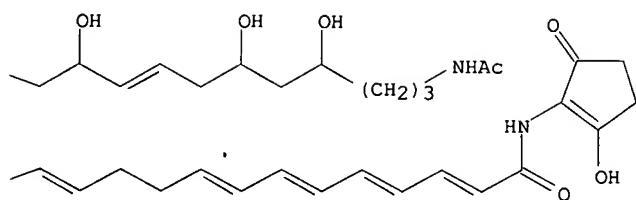


RN 735317-11-0 CAPLUS
 CN 2,4,6,8,12,18,20,22,24,26,38,48-Hexapentacontadodecaenamide,
 56-(acetylamino)-29-[(6-deoxy-L-mannopyranosyl)oxy]-
 15,17,33,35,37,41,43,45,47,51,53-undecahydroxy-N-(2-hydroxy-5-oxo-1-
 cyclopenten-1-yl)-14,16,30-trimethyl-31-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

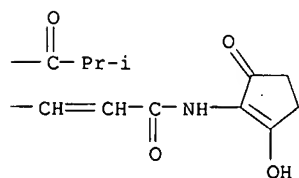
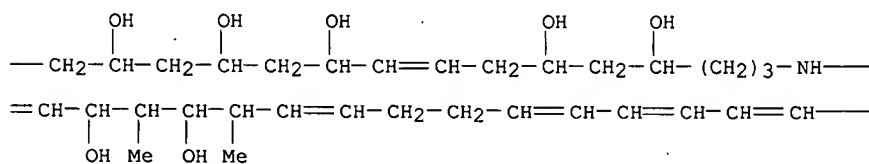
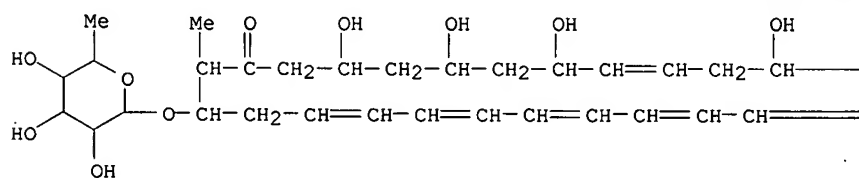
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RN 735317-12-1 CAPLUS

CN 2,4,6,8,12,18,20,22,24,26,38,48-Hexapentacontadodecaenamide,
 29-[(6-deoxy-L-mannopyranosyl)oxy]-15,17,33,35,37,41,43,45,47,51,53-
 undecahydroxy-N-(2-hydroxy-5-oxo-1-cyclopenten-1-yl)-14,16,30-trimethyl-56-
 [(2-methyl-1-oxopropyl)amino]-31-oxo- (9CI) (CA INDEX NAME)

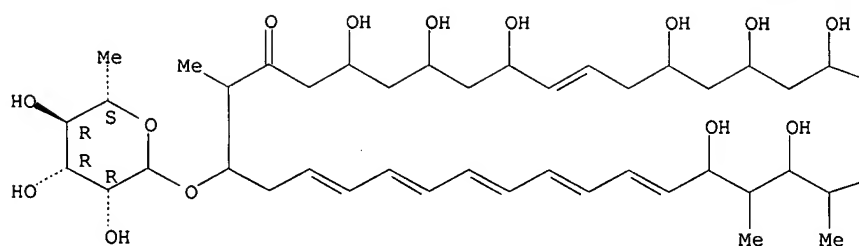


RN 735317-13-2 CAPLUS

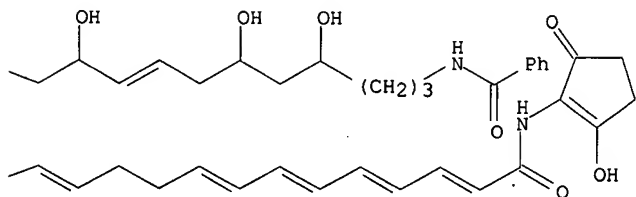
CN Benzamide, N-[28-[(6-deoxy-L-mannopyranosyl)oxy]-
 4,6,10,12,14,16,20,22,24,40,42-undecahydroxy-56-[(2-hydroxy-5-oxo-1-
 cyclopenten-1-yl)amino]-27,41,43-trimethyl-31,56-dioxo-
 8,18,30,32,34,36,38,44,48,50,52,54-hexapentacontadodecaenyl]- (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

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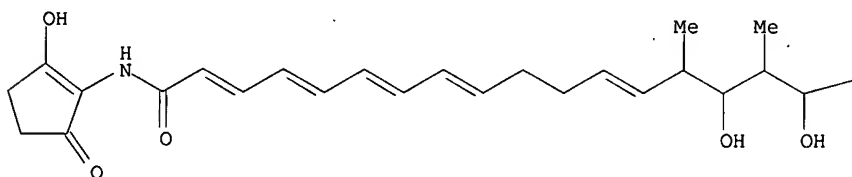
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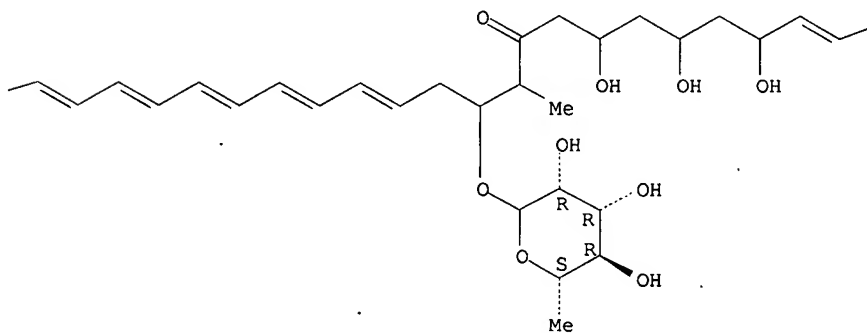
RN 735317-14-3 CAPLUS
 CN Benzamide, N-[28-[(6-deoxy-L-mannopyranosyl)oxy]-
 4,6,10,12,14,16,20,22,24,40,42-undecahydroxy-56-[(2-hydroxy-5-oxo-1-
 cyclopenten-1-yl)amino]-27,41,43-trimethyl-31,56-dioxo-
 8,18,30,32,34,36,38,44,48,50,52,54-hexapentacontadodecaenyl]-4-nitro-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

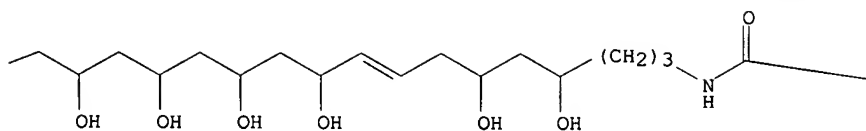
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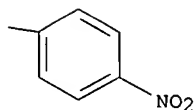
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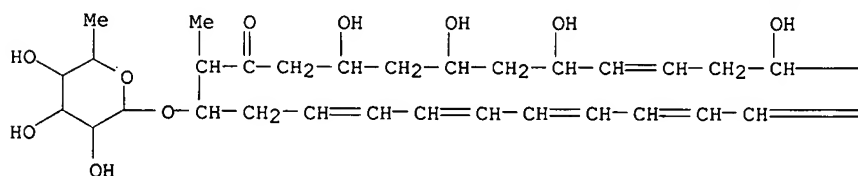
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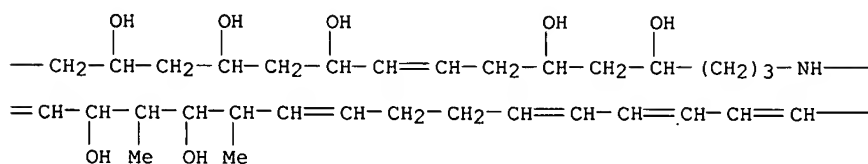
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CN 2,4,6,8,12,18,20,22,24,26,38,48-Hexapentacontadodecaenamide,
56-[[(2S)-2-amino-1-oxopropyl]amino]-29-[(6-deoxy-α-L-
mannopyranosyl)oxy]-15,17,33,35,37,41,43,45,47,51,53-undecahydroxy-N-(2-
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INDEX NAME)

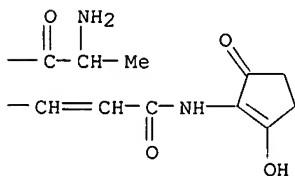
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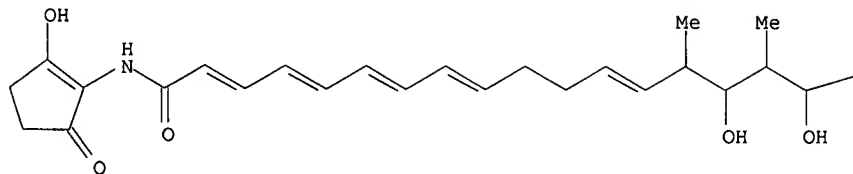
RN 735317-16-5 CAPLUS

CN Benzeneacetamide, α-amino-N-[28-[(6-deoxy-α-L-
mannopyranosyl)oxy]-4,6,10,12,14,16,20,22,24,40,42-undecahydroxy-56-[(2-
hydroxy-5-oxo-1-cyclopenten-1-yl)amino]-27,41,43-trimethyl-31,56-dioxo-
8,18,30,32,34,36,38,44,48,50,52,54-hexapentacontadodecaenyl]-4-hydroxy-
(9CI) (CA INDEX NAME)

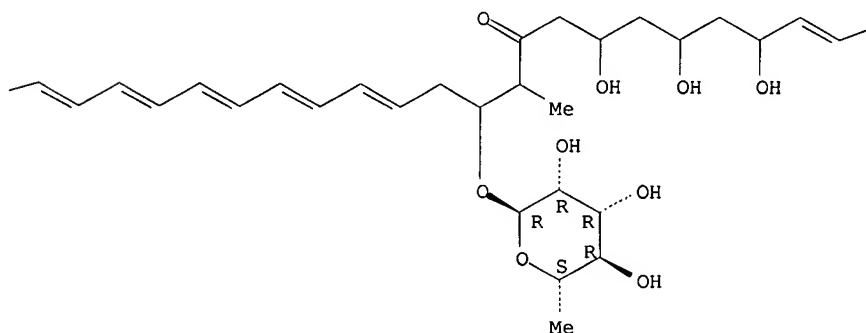
10/760,493

Absolute stereochemistry.
Double bond geometry unknown.

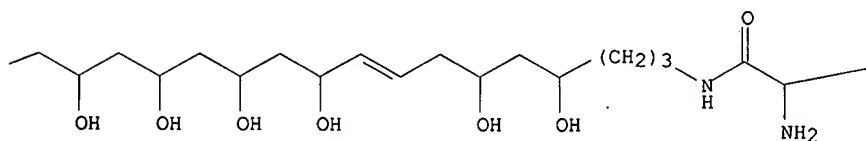
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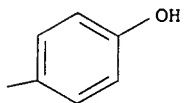
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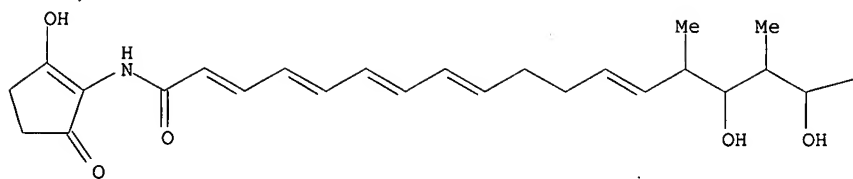


RN 735317-17-6 CAPLUS
CN Benzenepropanamide, α -amino-N-[28-[(6-deoxy- α -L-mannopyranosyl)oxy]-4,6,10,12,14,16,20,22,24,40,42-undecahydroxy-56-[(2-hydroxy-5-oxo-1-cyclopenten-1-yl)amino]-27,41,43-trimethyl-31,56-dioxo-8,18,30,32,34,36,38,44,48,50,52,54-hexapentacontadodecaenyl]-4-hydroxy-, (α S)- (9CI) (CA INDEX NAME)

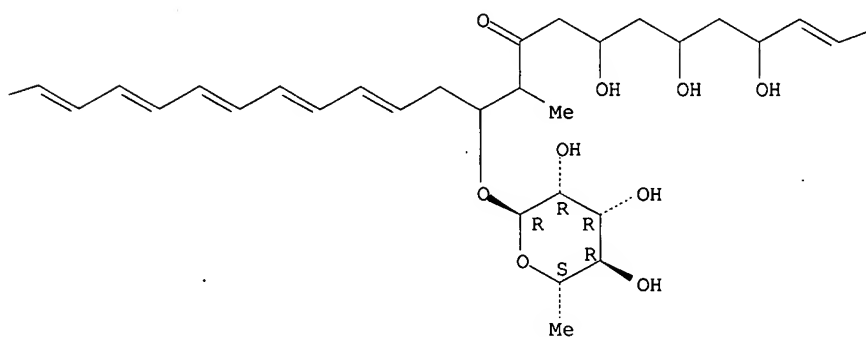
Absolute stereochemistry.
Double bond geometry unknown.

McIntosh

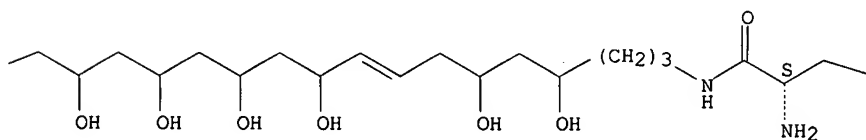
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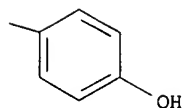
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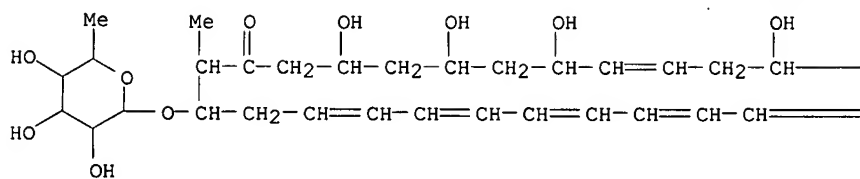
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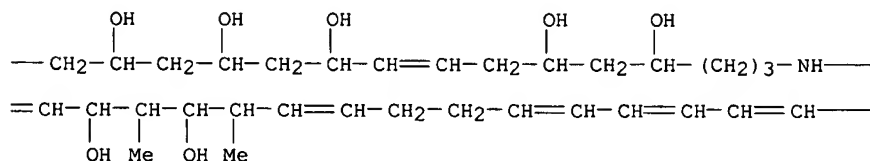
RN 735317-18-7 CAPLUS

CN 2,4,6,8,12,18,20,22,24,26,38,48-Hexapentacontadodecaenamide,
 56-[[(2S)-2-amino-3-methyl-1-oxobutyl]amino]-29-[(6-deoxy- α -L-
 mannopyranosyl)oxy]-15,17,33,35,37,41,43,45,47,51,53-undecahydroxy-N-(2-
 hydroxy-5-oxo-1-cyclopenten-1-yl)-14,16,30-trimethyl-31-oxo- (9CI) (CA
 INDEX NAME)

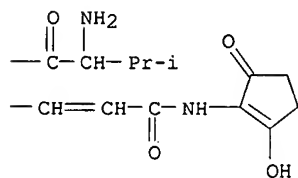
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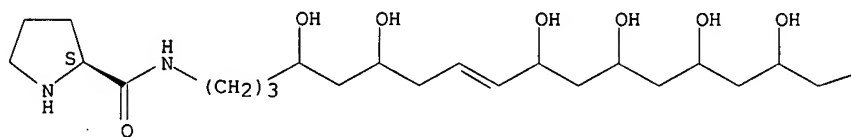
RN 735317-19-8 CAPLUS

CN 2,4,6,8,12,18,20,22,24,26,38,48-Hexapentacontadodecaenamide,
 29-[(6-deoxy- α -L-mannopyranosyl)oxy]-15,17,33,35,37,41,43,45,47,51,5
 3-undecahydroxy-N-(2-hydroxy-5-oxo-1-cyclopenten-1-yl)-14,16,30-trimethyl-
 31-oxo-56-[[(2S)-2-pyrrolidinylcarbonyl]amino]- (9CI) (CA INDEX NAME)

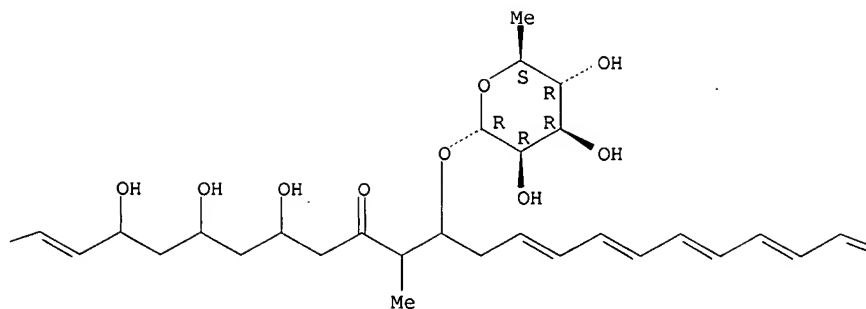
Absolute stereochemistry.

Double bond geometry unknown.

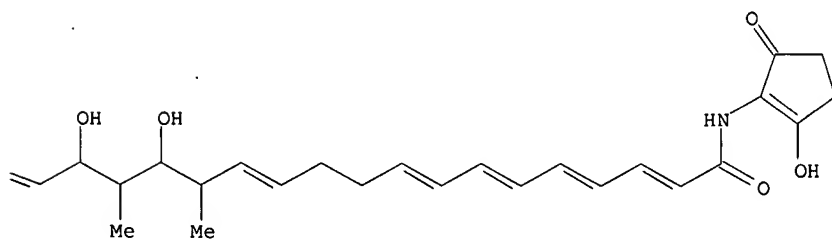
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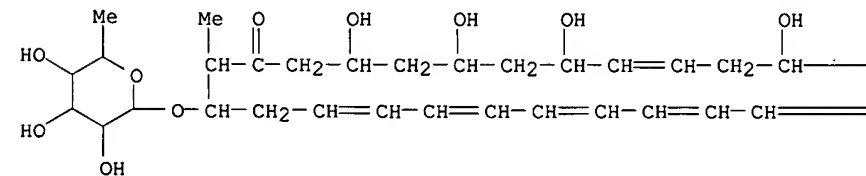
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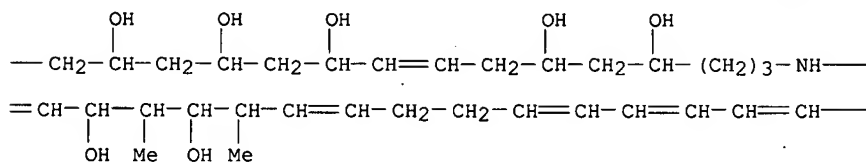
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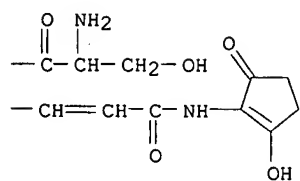
CN 2,4,6,8,12,18,20,22,24,26,38,48-Hexapentacontadodecaenamide,
 56-[[(2S)-2-amino-3-hydroxy-1-oxopropyl]amino]-29-[(6-deoxy-α-L-
 mannopyranosyl)oxy]-15,17,33,35,37,41,43,45,47,51,53-undecahydroxy-N-(2-
 hydroxy-5-oxo-1-cyclopenten-1-yl)-14,16,30-trimethyl-31-oxo- (9CI) (CA
 INDEX NAME)

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RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 14:56:05 ON 14 MAY 2007)

FILE 'REGISTRY' ENTERED AT 14:56:26 ON 14 MAY 2007

L1 STRUCTURE UPLOADED

L2 0 S L1 SSS SAM

L3 23 S L1 FULL

FILE 'CAPLUS' ENTERED AT 14:57:22 ON 14 MAY 2007

L4 3 S L3